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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,455	(	01/23/2001	Dale A. Sather	MS158383.1	9738
45979	7590	05/25/2006		EXAMINER	
PERKINS (		P/MSFT	BOTTS, MICHAEL K		
P. O. BOX 1247 SEATTLE, WA 98111-1247				ART UNIT	PAPER NUMBER
				2176	- · · · · · · · · · · · · · · · · · · ·
			DATE MAILED: 05/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/767,455	SATHER, DALE A.				
	Office Action Summary	Examiner	Art Unit				
		Michael K. Botts	2176				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NO - Failui Any r	CRTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING D. SISIN 69 MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period to te to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing departed term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 14 M	1arch 2006.					
• —		s action is non-final.					
′=	Since this application is in condition for allowa		rosecution as to the merits is				
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) 🖂	)⊠ Claim(s) <u>28-50</u> is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	)⊠ Claim(s) <u>28-50</u> is/are rejected.						
7)							
8)[	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9) ☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:					

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#### **DETAILED ACTION**

1. This document is a Final Office Action on the merits. This action is responsive to the following communications: Amendment After Non-Final, which was filed on March 14, 2006.

- 2. Applicants' attention is directed to the fact that a new examiner has been assigned to this case. The Examiner's name and telephone number are provided below.
- 3. Claims 28-50 are currently pending in the case, with claims 28, 36, and 44 being the independent claims.
- 4. Claims 28-50 are rejected.

#### Claims Rejections – 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 28-50 are rejected under 35 U.S.C. 102(e) as being anticipated by Stapel et al. (U.S. Patent 6,912,538 B2, Provisional Application filed October 20, 2000) [hereinafter "Stapel"].

### Regarding independent claim 28:

Stapel discloses a hierarchical model current representation in col. 2, line 6 through col. 3, line 2. Stapel specifically discusses the hierarchical limitation of the prior art document representation in col. 2, lines 6-22 and col. 2, lines 47-57. Stapel points out that the hierarchical structure is insufficient to achieve complex representations. Therefore, Stapel discloses a new document representation in col. 3, line 5 through col. 4, line 58, which it calls a matrix representation, which defines elements and their association such that both standard hierarchical and complex non-hierarchical relationships can be defined between elements using the same mechanism.

Stapel discloses identifying elements of the current representation that are to be items in the new representation in figure 2, figure 3, col. 3, lines 41-58, and col. 8, line 5 through col. 10, line 51. Stapel discloses for each identified element, creating for the new representation an item corresponding to the identified element in figure 2, figure 3, col. 8, line 5 through col. 10, line 51. Stapel discloses for each created item, adding to the item that is a subject of a hierarchical relationship as indicated by the current representation a link to each item corresponding to an identified element that is an object of the hierarchical relationship as indicated by the current representation in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51. Stapel discloses for non-hierarchical relationships between elements and content of elements as indicated by the current representation, adding to an item corresponding to the element that is the subject of the non-hierarchical relationship a

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link to the item corresponding to the content of the element that is the object of the non-hierarchical relationship in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51. Stapel discloses wherein the created items and added links form the new representation of the document in col. 3, line 5 through col. 4, line 58.

#### Regarding dependent claim 29:

Stapel discloses wherein the hierarchical relationships are explicit and the non-hierarchical relationships are implicit in col. 2, line 6 through col. 4, line 15.

#### Regarding dependent claim 30:

Stapel discloses wherein the hierarchical model is XML based in col. 2, line 6 through col. 3, line 2.

#### Regarding dependent claim 31:

Stapel discloses wherein the hierarchical relationships are indicated by parent and child relationships of XML elements in col. 2, line 6 through col. 3, line 2.

# Regarding dependent claim 32:

Stapel discloses wherein the non-hierarchical relationship is an attribute of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

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## Regarding dependent claim 33:

Stapel discloses wherein a non-hierarchical relationship is a property of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

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### Regarding dependent claim 34:

Stapel discloses wherein a non-hierarchical relationship is content of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

#### Regarding dependent claim 35:

Stapel discloses were the new representation is based on an item, relationship, and attributed model in figure 3, col. 3, line 5 through col. 4, line 58, and col. 10, line 3-51. The elements are stored in table 210, the relationships are stored in table 230, and the attributes are stored in table 250, all shown in figure 3.

### Regarding independent claim 36:

Stapel discloses a hierarchical model current representation in col. 2, line 6 through col. 3, line 2. Stapel specifically discusses the hierarchical limitation of the prior art document representation in col. 2, lines 6-22 and col. 2, lines 47-57. Stapel points out that the hierarchical structure is insufficient to achieve complex representations. Therefore, Stapel discloses a new document representation in col. 3, line 5 through col. 4, line 58, which it calls a matrix representation, which defines elements and their

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association such that both standard hierarchical and complex non-hierarchical relationships can be defined between elements using the same mechanism.

Stapel discloses identifying elements of the current representation that are to be items in the new representation in figure 2, figure 3, col. 3, lines 41-58, and col. 8, line 5 through col. 10, line 51. Stapel discloses for hierarchical relationships between elements of the current representation, adding to an item corresponding to the element that is a subject of the hierarchical relationship a link to the item corresponding to the element that is an object of the hierarchical relationship in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51. Stapel discloses for non-hierarchical relationships between elements and content of elements as indicated by the current representation, adding to an item corresponding to the element that is the subject of the non-hierarchical relationship a link to the item corresponding to the content of the element that is the object of the non-hierarchical relationship in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51. Stapel discloses adding to items attributes of corresponding elements of the current representation that do not indicate a relationship between elements in figure 3 and col. 10, lines 2-51. The attribute table stores item attributes for each of the elements that do not indicate relationships.

#### Regarding dependent claim 37:

Stapel discloses wherein the hierarchical relationships are explicit and the non-hierarchical relationships are implicit in col. 2, line 6 through col. 4, line 15. Stapel

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discloses wherein the non-hierarchical relationships are explicit in the new representation of the document in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51.

### Regarding dependent claim 38:

Stapel discloses wherein the hierarchical model is XML based in col. 2, line 6 through col. 3, line 2.

# Regarding dependent claim 39:

Stapel discloses wherein the hierarchical relationships are indicated by parent and child relationships of XML elements in col. 2, line 6 through col. 3, line 2.

#### Regarding dependent claim 40:

Stapel discloses wherein the non-hierarchical relationship is an attribute of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

## Regarding dependent claim 41:

Stapel discloses wherein a non-hierarchical relationship is a property of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

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# Regarding dependent claim 42:

Stapel discloses wherein a non-hierarchical relationship is content of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

### Regarding dependent claim 43:

Stapel discloses were the new representation is based on an item, relationship, and attributed model in figure 3, col. 3, line 5 through col. 4, line 58, and col. 10, lines 3-51. The elements are stored in table 210, the relationships are stored in table 230, and the attributes are stored in table 250, all shown in figure 3.

### Regarding independent claim 44:

Stapel discloses a hierarchical model current representation in col. 2, line 6 through col. 3, line 2. Stapel specifically discusses the hierarchical limitation of the prior art document representation in col. 2, lines 6-22 and col. 2, lines 47-57. Stapel points out that the hierarchical structure is insufficient to achieve complex representations. Therefore, Stapel discloses a new document representation in col. 3, line 5 through col. 4, line 58, which it calls a matrix representation, which defines elements and their association such that both standard hierarchical and complex non-hierarchical relationships can be defined between elements using the same mechanism.

Stapel discloses identifying elements of the current representation that are to be items in the new representation in figure 2, figure 3, col. 3, lines 41-58, and col. 8, line 5 through col. 10, line 51. Stapel discloses for hierarchical relationships between

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elements of the current representation, adding to an item corresponding to the element that is a subject of the hierarchical relationship a link to the item corresponding to the element that is an object of the hierarchical relationship in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51. Stapel discloses for non-hierarchical relationships between elements and content of elements of the current representation, adding to an item corresponding to the element that is the subject of the non-hierarchical relationship a link to the item corresponding to the content of the element that is the object of the non-hierarchical relationship in figure 1, figure 2, figure 3, col. 3, line 28 through col. 4, line 15, and col. 8, line 5 through col. 10, line 51.

#### Regarding dependent claim 45:

Stapel discloses wherein the hierarchical relationships are explicit and the non-hierarchical relationships are implicit in col. 2, line 6 through col. 4, line 15.

#### Regarding dependent claim 46:

Stapel discloses wherein the hierarchical relationships are indicated by parent and child relationships of XML elements in col. 2, line 6 through col. 3, line 2.

#### Regarding dependent claim 47:

Stapel discloses wherein the non-hierarchical relationship is an attribute of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

### Regarding dependent claim 48:

Stapel discloses wherein a non-hierarchical relationship is a property of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

#### Regarding dependent claim 49:

Stapel discloses wherein a non-hierarchical relationship is content of an XML element that refers to another XML element in col. 2, line 6 through col. 3, line 2.

### Regarding dependent claim 50:

Stapel discloses were the new representation is based on an item, relationship, and attributed model in figure 3, col. 3, line 5 through col. 4, line 58, and col. 10, line 3-51. The elements are stored in table 210, the relationships are stored in table 230, and the attributes are stored in table 250, all shown in figure 3.

# Response to Arguments

Applicants' arguments filed March 14, 2006 have been fully considered, but they are not persuasive.

Regarding rejections of claims 28-50 under 35 U.S.C. 102(e) over Stapel:

Applicants argue that Stapel does not teach, suggest, or motivate the use of the same mechanism to represent both hierarchical and non-hierarchical relationships.

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See, Amendment after Non-Final, page 8.

The Examiner disagrees.

The claims to not require that the use of "the same mechanism" to represent both hierarchical and non-hierarchical relationships. The limitations in the claims are drawn to "a link," which is read as being any appropriate link within the data structure. Stapel teaches a link. See, Stapel, figures 8 and 11, and col. 14, line 40-67.

#### Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS for the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael K. Botts whose telephone number is 571-272-5533. The examiner can normally be reached on Monday through Friday 8:00-4:00 EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon can be reached on 571-272-4136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MKB/mkb

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